

$$1 \bmod X = \frac{e^s}{X^s} - X - aln X \cdot 1 \\ 0 \bmod X \in (1, +\infty) \\ 0 \bmod X = 2$$

$$2 \mod f(x) = a^x - x^a (x > 0, a > 1)$$

$$010000 \ \forall \textit{X} \in (0,+\infty) \\ 000 \ \textit{InX} < \sqrt{\textit{X}} \\ 0$$

020000
$$f(x)$$
 0000000000 $f(x)$ 0000

$$300000 f(x) = ln(1+x) - \frac{ax}{x+1} (a>0)$$

$$0100 \ ^{X=1}000 \ ^{f(\lambda)}00000000 \ ^{\partial}000$$

0200
$$f(x)$$
...0 $0^{[0}$ 0 $^{+\infty}$) 000000 a 000000

$$f(x) = \ln(1+x) - \frac{x}{1+ax} = 0 \quad a \in (0_{\square} 1]_{\square}$$

 $0100000 \ f(\vec{x}) \ 000 \ [0 \ 0 \ 1] \ 000000$

$$f(x) = ln(1+x) - \frac{ax}{x+1}(a>0)$$

0100000 X = 100000 X = 00000 A = 0000

0200 $f(x)...000000^{a}$

$$600000 f(x) = h(1+x) - \frac{ax}{x+1} (a>0) = [h(1+x)]^{-1} = \frac{1}{1+x}$$

 $0100 \ ^{X=1} 000 \ ^{f(X)} 00000000 \ ^{a} 000$

0200
$$f(\mathbf{X})$$
... $\mathbf{0}_{\mathbf{0}}[\mathbf{0}_{\mathbf{0}}^{+\infty})$ 000000 $\mathbf{0}$

$$70000 \ f(x) = (1 - ax) \ln(1 + x) - x_{000} a_{0000}$$

$$\frac{(\frac{2021}{2020})^{\frac{2}{2020}} \ge e}{ }$$

800000
$$f(x) = In(1+x) - \frac{\partial X}{X+1}(\partial > 0)$$

 $0100 \ ^{X=1}000 \ ^{f(\lambda)}00000000 \ ^{\partial}000$

0200
$$f(x)$$
...0 $0^{(0}0^{+\infty)}$ 000000 a 000000

$$30000 \left(\frac{2017}{2016}\right)^{2017} > e(e)$$

900000
$$f(x) = e^{g(x)} \int g(x) = \frac{kx-1}{x+1} (e^{-x})$$

02000000
$$X > 0$$
000 $f(X) < X + 1$ 0000000000 K 000

$$1000000 f(x) = ln(1+x) - x_0 g(x) = ln^2(1+x) - \frac{x^2}{1+x_0}$$

 $0100 \stackrel{f(x)}{=} 000000$

$$1100000 f(x) = ax + lnx + 1$$

0100 ^{f(x)}000000

0200000 f(x)000000

030000 X > 00 f(X), Xe^{2x} 000000 a000000

$$12 \mod f(x) = ln(x+1) - ax$$

 $0100 \, {}^{f(x)}\!, \, {}^{0}{}_{0} \, {}^{x \in [0}{}_{0} \, {}^{+\infty)} \, 0000000 \, {}^{a}{}_{000000}$

$$200 \times 0 \times 0 \times (e^{x} - 1) \ln(x + 1) > x^{2}$$

1300000
$$f(x) = a^x + b^x (a > 0_0 b > 0_0 a \ne 1_0 b \ne 1)_0$$

$$a = 2, b = \frac{1}{2}_{0000} f(x) = 2_{000}$$

$$\begin{aligned} & 14 & \text{div} & = \frac{a}{X} - \ln X \\ & \text{div} & = \frac{a}{X} - \ln X \\ & \text{div} & = \frac{a}{X} - \ln X \\ & \text{div} & = \frac{a}{X} - \ln X \\ & \text{div} & = \frac{a}{X} - \ln X \\ & \text{div} & = \frac{a}{X} - \ln X \\ & \text{div} & = \frac{A}{X} - \ln X \\ & \text{div$$

150010000
$$f(x) = x \ln x - (1 - x) \ln (1 - x)_0^{0 < x}, \frac{1}{2}_{000000}$$

$$020000000 x^{1-x} + (1 - x)^x, \sqrt{2}_{0}(0,1)_{00000}$$

$$16_{00000} f(x) = \sin x - \ln(1+x)_{0} f(x)_{0} f(x)_{0000000}$$

f(x) 0000 2 0000



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